

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1

OSI DIRECTORY PRODUCTS

3COM	1	0	1
ALCATEL TITN	1	1	1
BOLDON JAMES	1	0	1
BT	1	1	1
BRUNEL UNIVERSITY	1	0	1
CONTROL DATA SYSTEMS	1	1	1
CRAY RESEARCH	1	1	1
DATA CONNECTION	3	1	2
DIGITAL	2	1	2
GPT	1	1	1
HEWLETT PACKARD	1	1	1
IBM	5	5	5
ICL	5	4	4
ISODE CONSORTIUM	1	1	1
MARBEN PRODUIT	2	2	2
MOTOROLA COMP GROUP	1	1	0
NCR	1	1	1
NEXOR	3	1	2
OISWARE	1	1	1
OLIVETTI	1	1	1
RETIX	1	1	1
SIEMENS NIXDORF	2	2	2
SOFTWARE KENETICS	1	1	1
STRATUS COMPUTER	2	2	2
TANDEM COMPUTERS	2	2	2
UNISYS	5	5	5
WANG	1	1	1
WOLLONGONG GROUP	2	2	2

[illegible]

FIG. 2A

PRINCIPAL DESIGN

REPRESENTING X.500 IN A RDBMS

- DATA EXTENSIBILITY AND COMPLEXITY
- OBJECT ORIENTATED AND HIERARCHICAL

EMP#	NAME	AGE	SALARY
------	------	-----	--------

↓
RELATIONAL

TYPE	SYNTAX	VALUE
------	--------	-------

↓
X.500

PROPERTY

OBJECT NAME	PARENT NAME	TYPE	SYNTAX	VALUE
----------------	----------------	------	--------	-------

CONCEPTUAL DESIGN

IMPLEMENTING X.500 IN A RDBMS

- ATTRIBUTES AND VALUES
- HIERARCHY AND NAMES
- ALIASES
- DATA TOLERANCE

HIERARCHY

EID	PARENT	ALIAS	NAME
-----	--------	-------	------

↓

PARENT	PATH
--------	------

↓

ALIAS	A-EID
-------	-------

↓

NAMENORM	NAMERAW
----------	---------

OBJECT

EID	AID	VID	DISTING	VALUE
-----	-----	-----	---------	-------

↓

NAMENORM	NAMERAW
----------	---------

ATTRIBUTE

AID	TYPE	SYNTAX	OBJECTID
-----	------	--------	----------

FUNCTIONAL DECOMPOSITION →

SERVICE DECOMPOSITION →

SECRET

APPROVED	O.G. FIG.	
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FIG. 2B



PERFORMANCE ENHANCEMENTS FOR RDBMS

- INDEXING OPTION
- I/O CONSIDERATIONS
- MANAGEMENT

DIT

EID	PARENT	ALIAS	RDN
-----	--------	-------	-----

TREE

EID	PATH
-----	------

ALIAS

EID	A-EID
-----	-------

NAME

EID	RAW
-----	-----

SEARCH

EID	AID	VID	DISTING	NORM
-----	-----	-----	---------	------

ENTRY

EID	AID	VID	RAW
-----	-----	-----	-----

ATTR

AID	SYX	DESC	OBJECTED
-----	-----	------	----------

PHYSICAL DESIGN

REALIZING X.500 IN A RDBMS

- EFFICIENCY
- PORTABILITY
- FUNCTIONAL EXTENSIBILITY

DIT

EID	PARENT	RDNKEY	RDN	FLAGS
-----	--------	--------	-----	-------

TREE

EID	LEV1	LEV2	LEV3	LEV4	PATH	FLAGS
-----	------	------	------	------	------	-------

ALIAS

EID	A-EID	FLAGS
-----	-------	-------

NAME _____

EID	RAW	FLAGS
-----	-----	-------

INFO

MAXEID	FLAGS
--------	-------

SEARCH

EID	AID	VID	NORMKEY	NORM	FLAGS
-----	-----	-----	---------	------	-------

ENTRY

EID	AID	VID	RAW	FLAGS
-----	-----	-----	-----	-------

SENTRY

EID	AID	VID	VALUE	FLAGS
-----	-----	-----	-------	-------

BLOB

EID	AID	VID	VFRAG	RAW	FLAGS
-----	-----	-----	-------	-----	-------

ATTR

AID	SYX	DESC	OBJECTID	FLAGS
-----	-----	------	----------	-------

OCLASS

OCID	DESC	OBJE CTID	MUST LIST	MAY LIST	SUPER LIST	FLAGS
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PHYSICAL TRANSFORMATION ➔

FIG. 3

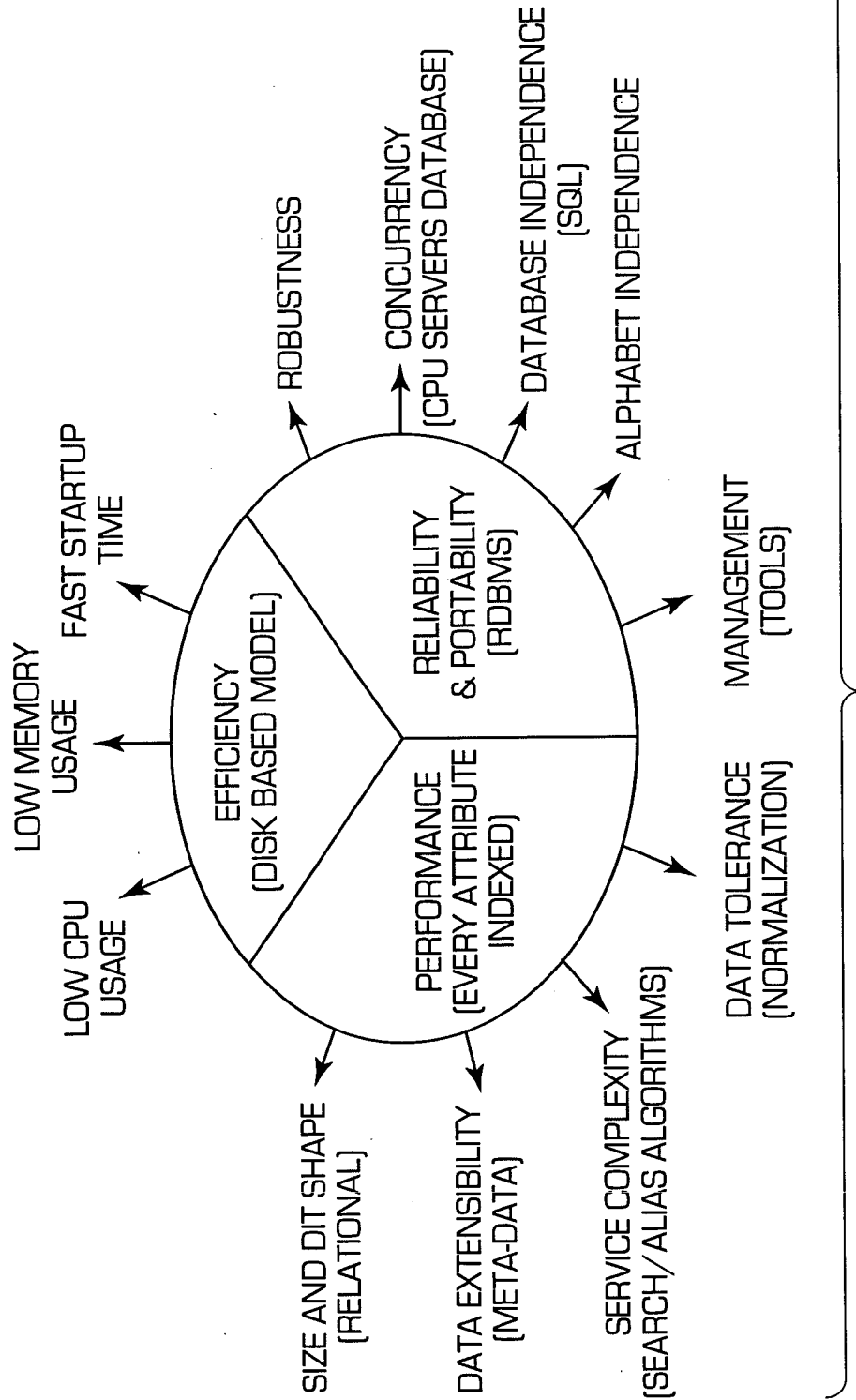


FIG. 4

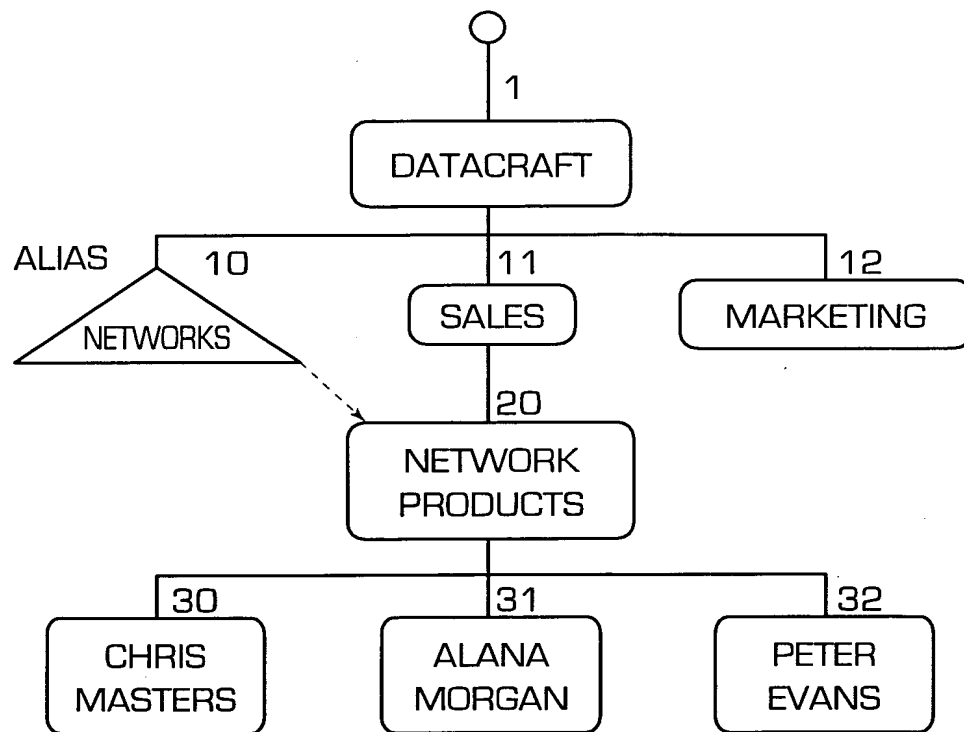


TABLE 3b/5a

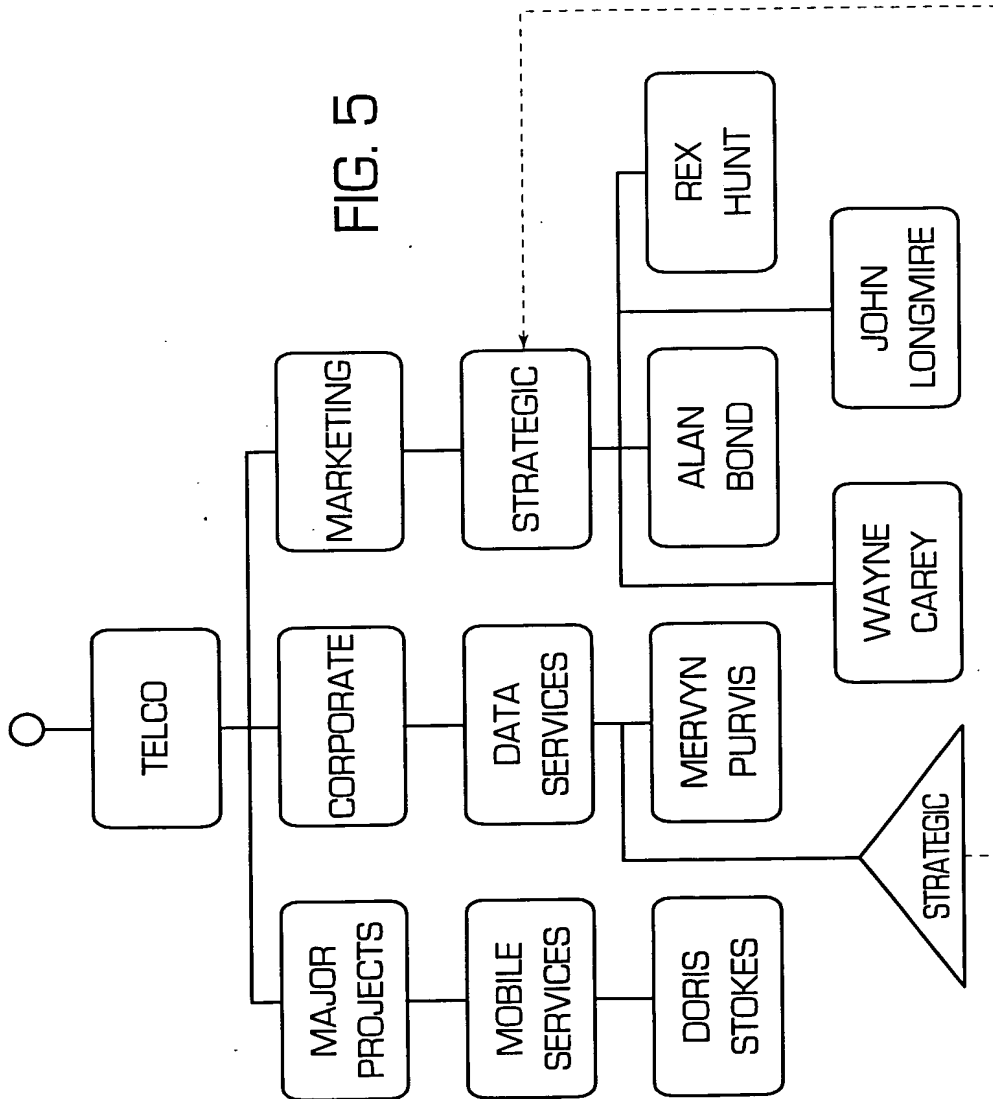


FIG. 5

SECRET 63272460